

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1-6. (canceled).

7. (currently amended): A diesel engine system running on diesel fuel with not more than 10 mass ppm sulfur, comprising a regenerative DPF and a lubricant comprising a lubricant composition of ~~claim 1~~ as an engine lubricant, said lubricant composition comprising:

a lubricant base oil, and

additives including:

(A) a metal detergent,

(B) an ashless dispersant, and

(C) a phosphorus-based anti-wear agent,

wherein said lubricant composition satisfies all of the following conditions (1) to (4):

(1) a sulfated ash content of 0.4 to 2 mass%,

(2) an atomic ratio of metal derived from component (A) to the total phosphorus (M/P ratio) of 0.2 to 3,

(3) an atomic ratio of the total boron to metal derived from component (A) (B/M ratio) of 0.2 to 2, and

(4) an atomic ratio of the total sulfur to metal derived from component (A) (S/M ratio) of 0 to 4.

8. (currently amended): A method for inhibiting accumulation of a depositing component on a regenerative DPF in a diesel engine system, said method comprising running said engine system on diesel fuel with not more than 10 mass ppm sulfur, and operating said engine system using a lubricant composition of ~~claim 1~~ as a lubricant for said diesel engine system, said lubricant composition comprising:

a lubricant base oil, and

additives including:

(A) a metal detergent,

(B) an ashless dispersant, and

(C) a phosphorus-based anti-wear agent,

wherein said lubricant composition satisfies all of the following conditions (1) to (4):

(1) a sulfated ash content of 0.4 to 2 mass%,

(2) an atomic ratio of metal derived from component (A) to the total phosphorus (M/P ratio) of 0.2 to 3,

(3) an atomic ratio of the total boron to metal derived from component (A) (B/M ratio) of 0.2 to 2, and

(4) an atomic ratio of the total sulfur to metal derived from component (A) (S/M ratio) of 0 to 4.

9. (new): The diesel engine system according to claim 7, wherein said sulfated ash content as condition (1) is more than 0.8 mass% and not more than 1.2 mass%.

10. (new): The diesel engine system according to claim 7, wherein said sulfated ash content as condition (1) is 0.4 to 0.8 mass%.

11. (new): The diesel engine system according to claim 7, wherein said sulfated ash content as condition (1) is more than 1.2 mass% and not more than 2 mass%.

12. (new): The diesel engine system according to claim 7, wherein said metal detergent (A) includes at least one of alkaline earth metal salicylate and an overbased or basic salt thereof.

13. (new): The diesel engine system according to claim 7, wherein said regenerative DPF is a continuous regenerative DPF intended for mounting on a motor vehicle.

14. (new): The method according to claim 8, wherein said sulfated ash content as condition (1) is more than 0.8 mass% and not more than 1.2 mass%.

15. (new): The method according to claim 8, wherein said sulfated ash content as condition (1) is 0.4 to 0.8 mass%.

16. (new): The method according to claim 8, wherein said sulfated ash content as condition (1) is more than 1.2 mass% and not more than 2 mass%.

17. (new): The method according to claim 8, wherein said metal detergent (A) includes at least one of alkaline earth metal salicylate and an overbased or basic salt thereof.

18. (new): The method according to claim 8, wherein said regenerative DPF is a continuous regenerative DPF intended for mounting on a motor vehicle.